

# Abstracts

## A Superheterodyne 600 Gc Radiometer Receiver

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*R.F. Packard. "A Superheterodyne 600 Gc Radiometer Receiver." 1965 G-MTT Symposium Program and Digest 65.1 (1965 [MWSYM]): 211-216.*

A radiometer receiver using a superheterodyne circuit has been designed and constructed which detects thermal energy at 600 gc. The design is an extension to submillimeter wavelengths of principles used previously by workers at this laboratory in the design of millimeter wave radiometers. The radiometer was built on contract with U.S. Army Munitions Command, Frankford Arsenal, for field evaluation as a possible means for detection of ground military targets. This paper described the design and performance of the radiometer in viewing a thermal calibrator. Field experiments with the radiometer will be reported at a later time by personnel of the contracting agency.

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